We Claim:

1. An energy recovery system of the type wherein heat is extracted from an engine by refrigerant passing through an heat exchanger of an organic rankine cycle system, comprising:

a heat exchanger for transferring heat from said engine to an organic rankine cycle fluid flowing through said heat exchanger;

a turbine for receiving said heated fluid from said heat exchanger and for transferring a thermal energy to motive power, with said fluid being cooled in process;

a condenser for receiving said cooled fluid and for further cooling said fluid to cause it to change to a liquid state;

a circulation means for receiving said liquid refrigerant and circulating it to said heat exchanger;

wherein said heat exchanger is adapted to transfer heat from a plurality of sources within said engine.

2. A system as set forth in claim 1 wherein said heat exchanger is adapted to conduct the flow of two different engine fluids therethrough.

3. A system as set forth in claim 2 wherein said heat exchanger is so adapted as to have engine coolant passing therethrough.

4. A system as set forth in claim 2 wherein said heat exchanger is so adapted as to have engine lubricant passing therethrough.

5. A system as set forth in claim 2 wherein the flow of said two different engine fluids is in the same direction through said heat exchanger.

6. A system as set forth in claim 5 wherein said ORC flow is in a direction opposite to said two different engine fluid flows.

7. A system as set forth in claim 2 wherein the temperature of said two different engine fluids are in the range of 160 to 200°F.

8. A system as set forth in claim 2 wherein said two different engine fluids comprise an engine coolant and an engine lubricant.

9. A method of operating a waste heat recovery system having an organic rankine cycle with its motive fluid in heat exchange relationship with relatively hot fluids of an engine, comprising the steps of:

circulating a relatively cool motive fluid from a condenser of said organic rankine cycle through at least one heat exchanger;

circulating a plurality of relatively hot fluids from said engine through said at least one heat exchanger to thereby heat said motive fluid and cool said plurality of fluids;

circulate said heated motive fluid through a turbine for providing motive power thereto while cooling said motive fluid;

circulating said cooled motive fluid to said condenser; and

circulating said plurality of cooled engine fluids back to said engine.

10. A method as set forth in claim 9 wherein said step of circulating a plurality of relatively hot fluids includes the step of circulating engine coolant through said heat exchanger.

11. A method as set forth in claim 9 wherein said step of circulating a plurality of relatively hot fluids includes the step of circulating engine lubricant through said heat exchanger.

12. A method as set forth in claim 9 wherein said step of circulating a plurality of relatively hot fluids includes the step of circulating an engine coolant and an engine lubricant through said heat exchanger.

13. A method as set forth in claim 12 wherein said engine coolant and engine lubricant are made to flow through the heat exchanger in the same direction.

14. A method as set forth in claim 13 wherein said step of circulating said relatively cool motive fluid is accomplished by causing said motive fluid to flow in a direction opposite to the flow of said engine coolant and engine lubricant.